

OIL ANALYSIS REPORT

KAESER SM 10 4578874 (S/N 1391) Component

Compressor

KAESER SIGMA (OEM) M-460 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

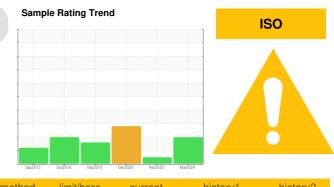
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



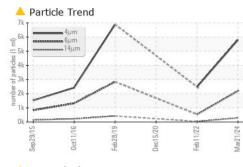
Sample Number Client Info KCPA01353 KCP24950 KCP29950 Sample Date Client Info 21 Mar 2024 11 Feb 2020 15 Dec 2020 Machine Age hrs Client Info 17165 16119 15124 Oil Age KC Client Info N/A Changed Changed Sample Status Imate Method Multicol N/A Changed Changed Inon pm ASTM 051858 >50 <1 1 1 Inon pm ASTM 051858 >30 0 0 0 Silver ppm ASTM 051858 >30 0 0 0 Silver ppm ASTM 051858 >10 0 0 0 Silver ppm ASTM 051858 >10 0 0 0 0 Autimium ppm ASTM 051858 >10 0 0 0 0 Vanadium ppm ASTM 051858 </th <th>SAMPLE INFORM</th> <th>IATION</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 17165 16119 15124 Oil Age hrs Client Info 0 995 1494 Oil Changed Client Info N/A Changed Changed Sample Status Imit Descent ABNORMAL NORMAL ABNORMAL WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05185 >50 <1 1 1 Chromium ppm ASTM 05185 >30 0 0 0 Tatanium ppm ASTM 05185 >30 0 0 0 Lead ppm ASTM 05185 >50 2 2 2 Tin ppm ASTM 05185 >50 2 2 2 Antimony ppm ASTM 05185 >10 0 0 0 Antimony ppm ASTM 05185 0 0 0 0 Antimony pp	Sample Number		Client Info		KCPA013536	KCP34871	KCP29950
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Iron ppm ASTM D5185m >50 <1	Sample Status				ABNORMAL	NORMAL	ABNORMAL
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Atuminum ppm ASTM D5185m >10 0 <1							<1
Lead ppm ASTM D5185m >10 0 0 <11	Aluminum		ASTM D5185m	>10		<1	0
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Marganese ppm ASTM D5185m 0 <1						0	
Magnesium ppm ASTM D5185m 100 32 61 45 Calcium ppm ASTM D5185m 0 <1 1 1 Phosphorus ppm ASTM D5185m 0 0 11 4 Zinc ppm ASTM D5185m 0 42 45 63 Sulfur ppm ASTM D5185m 23500 20819 18344 18298 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 1 3 Sodium ppm ASTM D5185m >20 2 2 2 Water % ASTM D5185m >20 2 2 2 Water % ASTM D5185m >20 320 121.8 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 2196	-						<1
Calcium ppm ASTM D5185m 0 <1	-		ASTM D5185m	100	32	61	45
Zinc ppm ASTM D5185m 0 42 45 63 Sulfur ppm ASTM D5185m 23500 20819 18344 18298 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 1 3 Sodium ppm ASTM D5185m >20 2 2 2 Water % ASTM D6304 >0.05 0.031 0.012 △ 0.169 ppm Water ppm ASTM D6304 >500 320 121.8 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 2196 538 Particles >6µm ASTM D7647 >80 290 36 Particles >14µm ASTM D7647 >20 94 10 Particles >21µm ASTM D7647 3 0	Calcium	ppm	ASTM D5185m	0	<1	1	1
Sulfur ppm ASTM D5185m 23500 20819 18344 18298 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 1 3 Sodium ppm ASTM D5185m >20 2 2 2 Vater % ASTM D6304 >0.05 0.031 0.012 0.169 ppm Water ppm ASTM D6304 >500 320 121.8 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 2196 538 Particles >6µm ASTM D7647 >1300 2196 538 Particles >1µm ASTM D7647 >20 94 10 Particles >38µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Oli Cleanliness ISO 4406 (c) /17/13 20/18/15	Phosphorus	ppm	ASTM D5185m	0	0	11	4
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >25 1 1 3 Sodium ppm ASTM D5185m >20 2 2 2 Potassium ppm ASTM D5185m >20 2 2 2 Water % ASTM D6304 >0.05 0.031 0.012 ▲ 0.169 ppm Water ppm ASTM D6304 >500 320 121.8 ▲ 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 ▲ 2196 538 Particles >6µm ASTM D7647 >80 ▲ 290 36 Particles >14µm ASTM D7647 >20 ▲ 94 10 Particles >38µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 3 0 </th <th>Zinc</th> <th>ppm</th> <th>ASTM D5185m</th> <th>0</th> <th>42</th> <th>45</th> <th>63</th>	Zinc	ppm	ASTM D5185m	0	42	45	63
Silicon ppm ASTM D5185m< >25 1 1 3 Sodium ppm ASTM D5185m 15 18 6 Potassium ppm ASTM D5185m >20 2 2 2 Water % ASTM D6304 >0.05 0.031 0.012 ▲ 0.169 ppm Water ppm ASTM D6304 >500 320 121.8 ▲ 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >1300 ▲ 2196 538 Particles >6µm ASTM D7647 >80 ▲ 290 36 Particles >14µm ASTM D7647 >20 ▲ 94 10 Particles >21µm ASTM D7647 >20 ▲ 94 0 Particles >38µm ASTM D7647 >3 0 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/15 16/12 <	Sulfur	ppm	ASTM D5185m	23500	20819	18344	18298
Sodium ppm ASTM D5185m 15 18 6 Potassium ppm ASTM D5185m >20 2 2 2 Water % ASTM D6304 >0.05 0.031 0.012 ▲ 0.169 ppm Water ppm ASTM D6304 >500 320 121.8 ▲ 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5799 2481 Particles >6µm ASTM D7647 >1300 ▲ 2196 538 Particles >14µm ASTM D7647 >80 ▲ 290 36 Particles >21µm ASTM D7647 >20 ▲ 94 10 Particles >38µm ASTM D7647 >4 5 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/15 16/12 FLUID D	CONTAMINANTS	;	method	limit/base	current	history1	history2
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Potassium ppm ASTM D5185m >20 2 2 2 Water % ASTM D6304 >0.05 0.031 0.012 0.169 ppm ASTM D6304 >500 320 121.8 1690 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 5799 2481 Particles >6µm ASTM D7647 >1300 2196 538 Particles >6µm ASTM D7647 >80 290 36 Particles >14µm ASTM D7647 >20 94 10 Particles >38µm ASTM D7647 >4 5 0 Particles >71µm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/15 16/12 FLUID DEGRADATION method limit/base current history1 history2							
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Particles >14μm ASTM D7647 >80 ▲ 290 36 Particles >21μm ASTM D7647 >20 ▲ 94 10 Particles >38μm ASTM D7647 >4 ▲ 5 0 Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/18/15 16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >4µm		ASTM D7647		5799	2481	
Particles >21μm ASTM D7647 >20 ▲ 94 10 Particles >38μm ASTM D7647 >4 ▲ 5 0 Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/18/15 16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >6µm		ASTM D7647	>1300	<u> </u>	538	
Particles >38μm ASTM D7647 >4 5 0 Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 20/18/15 16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >14µm		ASTM D7647	>80	<u> </u>	36	
Particles >71μm ASTM D7647 >3 0 0 Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/18/15 16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >21µm		ASTM D7647	>20	<u> </u>	10	
Oil Cleanliness ISO 4406 (c) >/17/13 ▲ 20/18/15 16/12 FLUID DEGRADATION method limit/base current history1 history2	Particles >38µm		ASTM D7647	>4	<u> </u>	0	
FLUID DEGRADATION method limit/base current history1 history2	Particles >71µm		ASTM D7647	>3	0	0	
	Oil Cleanliness		ISO 4406 (c)	>/17/13	20/18/15	16/12	
Acid Number (AN) mg KOH/g ASTM D8045 1.0 0.32 0.30 0.378	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.32	0.30	0.378

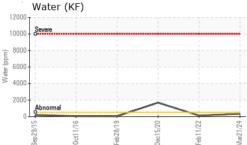
Report Id: INSOKL [WUSCAR] 06134049 (Generated: 04/03/2024 13:20:57) Rev: 1

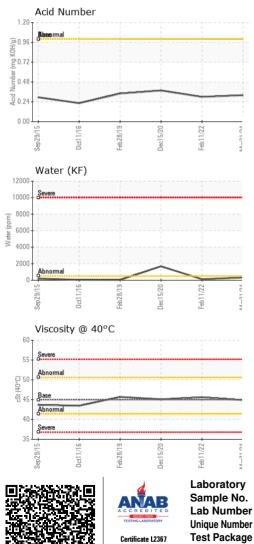
Contact/Location: BRET ? - INSOKL



OIL ANALYSIS REPORT







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	🔺 MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45	44.9	45.6	45.1
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						

